



A **BELDEN** BRAND

Technical Note

NV9000 v6.3.1 Release Notes

Introduction

This document lists cumulative changes to the NV9000 software released as version 6.3.1. The changes affected NV9000 core software, NV9000-SE Utilities, and third-party control code (when it is applicable).

New Features at v6.3.1, build 1906

- 1 [NVCS - 4117] DHP released at version 1.0.
- 2 [NVPL - 7] Support for NV9648 panels.
- 3 [NVPL - 8] Support for NV9649 panels.
- 4 Automatic freeing of upstream tielines when not in use.

Bug Fixes at v6.3.1, build 1906

- 1 [NVCS-4224] Fan-in tielines were not displaying the correct status or releasing reservations.
- 2 [NVCS-4230] Tieline group takes were causing a lock-up of tielines that required a local source take to free the tielines.
- 3 [NVCS – 4217] The switch between all-level takes and breakaway takes was not working properly in the NP service.
- 4 [NVCS – 4228] A take would release a lock or a protect when locks or protects were set to “In Server.”

Limitations and Known Issues at v6.3.1, build 1906

- 1 DHP does not work with zero-based port numbering in matrix configurations.
- 2 DHP does not support the disembedder/embedder cards.
- 3 DHP does not support the NV8140 router.
- 4 Tieline grouping does not support the use of a free source.
- 5 Tieline routes do not support level mapping.
- 6 Level mapping has inconsistent behavior. It might require two pushes of the take button.
- 7 Profiles don't support locks and protects.
- 8 Profiles give false status for levels that are not the primary level.
- 9 Tieline routes using profiles will always be “successful” even if no tieline is available.
- 10 The ‘Restart’ buttons in NV9000-SE Utilities might not cause a restart. Use the ‘Stop’ and ‘Start’ buttons.

New Features at v6.3.0 Build 1873, A-Release

- 1 [NVCS-4116] Tieline management improvements that support hybrid routing needs.
- 2 [NVCS-4119] ABI (audio break-in) support for NV8500 family routers. (ABI allows customers to shuffle the original audio at the output card).
- 3 [NVCS-4120] Solved a tieline response issue caused by an Encore v1.7.4 bug.
- 4 [NVCS-4121] Lock and protects. Now provide mapping of LPR between NV9000 and Encore/SMS.
- 5 [NVCS-4212] Added NV9000-to-Encore Lock/Protect mapping redundancy.
- 6 [NVPL-9] Released NV9654 high density panel, with support, and corresponding virtual panel.

Bugs Fixed at v6.3.0 Build 1873, A-Release

- 1 [NVCS-4162] Distributor was crashing on failover.
- 2 [NVCS-4184] Distributor had a memory leak.
- 3 [NVCS-4210] Fixed gang take, in the Encore router driver.
- 4 [NVCS-4161] Implemented an SMS serial take enhancement.

New Features at v6.2

- 1 The 'Previous Source' function is now supported across tieline routes.
- 2 Control panels and GUIs will show "EmbedOff" instead of "*****" when a hybrid output is in bypass mode.
- 3 NV9000-SE Utilities now displays a 'Save and Close' button on data entry pages.
- 4 Control panels that support level mapping can now map source levels that do not exist on the destination.
- 5 NV9000-SE Utilities now supports 'Physical Connections' pages for inputs alone and outputs alone, as well as displaying both in one page.
- 6 NV9000-SE Utilities supports a custom tieline paths calculation so users can modify the default paths generated.
- 7 In NV9000-SE Utilities, Encore external interfaces can now be configured with a secondary Ethernet control point.
- 8 In NV9000-SE Utilities, the configuration name has been appended to the control system's name on the 'System Management Tree' menu.

Bugs Fixed from Versions 6.028 to 6.2

- 1 [NVCS-2821] Config/Salvo designation fix.
- 2 [NVCS-3020] Config/Salvos/Add Salvo mnemonic with more than 8 characters doesn't create salvo.

- 3 [NVCS-3021] In tables, mnemonic fields with more than 8 characters generate exceptions and rows are not entered. (Alias, Categories, . . .)
- 4 [NVCS-3033] NV9000 'Add or Remove Programs' (installer) gave version as 4.1.0 rather than 4.2.0.
- 5 [NVCS-3034] Stagetec & SierraVideo router protocols are not installed in NV9000.
- 6 [NVCS-3055] In the salvo editor, 'Pause' generates a number format exception.
- 7 [NVCS-3061] The salvo editor now generates more arguments than the old panel editor. For example, TAKE_ALL had 2 arguments, and now has 4 arguments.
- 8 [NVCS-3062] In the salvo editor, the 'Salvo Operations' fields, when double-clicked, are editable and can overwrite other fields if moved up or down.
- 9 [NVCS-3083] In the NV9640, under 'Start' menu should be 9640V.
- 10 [NVCS-3084] The NV9605V and NV9640V required a restart after an uninstall.
- 11 [NVCS-3154] The NV9641's automatically generated pages overwrite scroll buttons, that is, the NV9641 places devices on the scroll buttons.
- 12 [NVCS-3159] SNMP's router, NV9000, & registrations MIBs have all been updated and we didn't have the latest versions installed.
- 13 [NVCS-3160] The latest version of Uniconfig is 5.1.0, which is later than the version 5.0.0 which was installed.
- 14 [NVCS-3162] For the Stagetec router, only the first set of takes are sent and the received switch updates aren't handled properly in the loop.
- 15 [NVCS-3242] In the compact machine control router (or data router), locked ports are difficult to unlock under some conditions.
- 16 [NVCS-3244] If a secondary server is added during the install, 'SecondaryHostIP' and 'PrimaryHost-Name' were not added to the registry.
- 17 [NVCS-3252] A console error message occurred when both controllers were running.
- 18 [NVCS-3253] Some processes don't always start on the *inactive* controller until it's active.
- 19 [NVCS-3254] Prevent both controllers from being active at same time.
- 20 [NVCS-3256] SNMP now supports the new redundancy mechanism.
- 21 [NVCS-3272] NV9000-SE Utilities no longer opens on the controller. The error message was 'Could not attach to NV9000 system. Exiting . . . '.
- 22 [NVCS-3274] NV9000-SE Utilities installed as 'per-user' does not open.
- 23 [NVCS-3286] For NV9601 and NV9640 panels with 'Hide Unconfigured Sources' enabled, all source status appeared as '*****', that is, no source names were evident.
- 24 [NVCS-3483] 'Saving virtual XPT data.' The RtrSvr message every 10 sec fills NvConfig.log.
- 25 [NVCS-3503] 'Restart Computer to Complete Install' window is hidden; 'Launch Permissions' window is also hidden sometimes.
- 26 [NVCS-3506] Client install of Control GUI or Status GUI no longer writes controller address to registry. Therefore apps would not launch.
- 27 [NVCS-3522] Virtual IP addresses configured on missing subnets cause an NvMaster crash.
- 28 [NVCS-3525] RocketPort pin gender modification.

- 29 [NVCS-3533] Tielines don't fail-over to controller 2; Reboot controllers and controller 1 active but tielines fail also.
- 30 [NVCS-3534] 'VerboseDebug' logging in apps table for tieline server gives same as system events logging, no diagnostic logging.
- 31 [NVCS-3537] TielineStatusGUI Free does not free the tieline.
- 32 [NVCS-3538] The TielineStatusGUI is blank on the client; It updates fine on local controller and standby controller.
- 33 [NVCS-3539] The TielineStatusGUI has no shortcut on the desktop; generic rather than NVISION icon under the Windows 'Start' menu.
- 34 [NVCS-3542] Tielines fail to rollover.
- 35 [NVCS-3564] Embed O/S: Event System Log has serial error on controller START, Event ID:18.
- 36 [NVCS-3569] Restart of controller 1 does *not* rollover to controller 2. Controller 1 returns as the active controller.
- 37 [NVCS-3648] With new NV9601, '0' id, enter id not in config, cycle power and display goes blank, must reload software.
- 38 [NVCS-3653] NV9601 and NV9640 multi-destination mode showing breakaway or level map status as is done on NV9608 and NV9616.
- 39 [NVCS-3706] External TCP/IP clients cannot do automatic tieline takes.
- 40 [NVCS-3765] Probel O2 router protocol takes "forever" to come on line.
- 41 [NVCS-3849] The latest NV9000 installer (SV0920-06) causes WinXP system to generate a missing file error.
- 42 [NVCS-3903] Salvos with virtual crosspoints can execute out of order if the salvo is large and routers use NVEP.
- 43 [NVCS-3935] If you select multiple destinations on an NV9608 or NV9616 and lock or protect them, the panel will allow you to lock free RS422 port, and then you can't release it.
- 44 [NVCS-3967] DHP's status for audio channels not involved in an audio 'shuffle' takes minutes {i.e., a long time) to appear.
- 45 [NVCS-4003] The DHP Status GUI fails to obtain data from the NV9000.
- 46 [NVCS-4103] Tielines were being reused without freeing them on an up/down conversion tieline.
- 47 In NV9000-SE Utilities, there was a fix for a bug that would not read tieline data correctly on a "Read." Then when a "Dynamic Update" was performed, any existing Tielines would break.

Bugs Fixed Prior to Version 6.028

- 1 Improved filtering on the router status page.
- 2 Improved router status on the router status page. (The page now only reports the actively displayed output ports.)
- 3 The NV9000 now has the ability to handle configuration files for panel types not yet implemented in NV9000-SE Utilities.
- 4 Corrects the 'CS Failed' error encountered when reading a configuration back from a controller.

- 5 Physical Level ID and port numbers are displayed on the 'Tieline2 Signal Binding' table.
- 6 The tieline manager was modified to insert the correct value in a path's cost field.
- 7 Fix for bug with non-contiguous page numbers in global navigation configurations.
- 8 Added a parameter to request more memory allocation from the OS to prevent the out-of-memory exceptions that occur while working on tielines with hybrid routers.
- 9 Removed some debug code that was slowing down tieline path calculations.
- 10 Fixed a bug where the External Interface Configuration Editor would remove parameters added by hand from the 'Parameters' field in the 'Control Points' table.
- 11 [NVCS-3158] The SNMP Master Control subagent and MIB were not included in the 4.3.0 install.
- 12 [NVCS-3602] Logging missing in version 510.
- 13 [NVCS-3630] NV9000 v5.1.0 install with NV9000 running yields incomplete install, two thirds of bin files missing.

Virtual Panels Release 2012 Release Notes

These are updates regarding virtual panels:

- 1 All panels now have 'About' box information: Release 7/2012, Version 6.2.0, Build 770.
- 2 New PC, and Mac installers (fixes Mac Lion OS users). All built with JDK 1.6.
- 3 The NV9647V panel is added to the CD in this release.
- 4 Have JAR folder on released CD so that the panels can be used on any O.S.
- 5 Acquired a better NV Logo to be shown in title bar and task bar.
- 6 Add context menu to all controls so that right click context menu can be invoked anywhere on the panel (except in the display area).
- 7 Make all .ini files specific to the panel, e.g., <paneltype>.ini.
- 8 Change the text display algorithm for NV9642 from different for 1, 2, or 3 lines to same algorithm for all formats.

Special Encore-NV9000 Fixes (at V6.2

The following items were patched in the special Encore-NV9000 builds. These version were built on-site, and were tracked as Subversion CtrlSys revisions 2902–2950. (NBC currently has v6.1.0.1538.)

- 1 Fixed the "native protocol" memory leak caused by a received message that was passed incorrectly.
- 2 Fixed an occasional race condition during a failover of the NV9000 system where the GVG NP interface would occasionally stop responding. It was caused by a data race between multiple threads, resolved by re-ordering the acquisition of a mutex.
- 3 Fixed an issue with NV9000 re-initialization following disconnect from Encore. Occasionally after a disconnect/reconnect to an Encore, the GVG NP service would not fully reinitialize. This was resolved in the same fix as point 2 above.

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- 4 Fixed an issue with indexed takes where mnemonics were not mapped correctly. The Encore always uses the indexed take command. It was found that a sparsely populated Encore configuration (one with unused indices) was not being indexed correctly by the GVG NP service.
- 5 Fixed a deadlock condition. It was possible in a high-load situation to cause the send/receive thread of the GVG NP service to deadlock on acquisition of a mutex. This was resolved by using a “copy before use” strategy to obviate the need for mutex acquisition by one of the threads. The removal of lock contention also improved the performance of the service despite the overhead of copying the data.

These fixes are included in version 6.2.0.